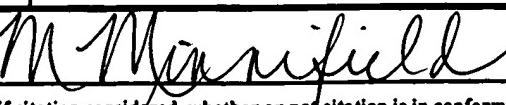


<p style="text-align: center;"><b>INFORMATION DISCLOSURE CITATION</b>  <i>(Use several sheets if necessary)</i></p> <p style="text-align: right;">JUL 06 2004</p> <p style="text-align: right;">U.S. PATENT AND TRADEMARK OFFICE SCA</p>			Docket Number (Optional) <b>Army172</b>		Application Number <b>10/002,784</b>		
			Applicant(s) <b>Ulrich et al.</b>				
			Filing Date <b>November 26, 2001</b>	Group Art Unit <b>1645</b>			
			<b>U.S. PATENT DOCUMENTS</b>				
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES      NO
<b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	A	Kappler et al., "VB-Specific Stimulation of Human TCells by Staphylococcal Toxins", 1989, Science , vol 244, pages 811-813.					
	B	Karlsson, et al., "Kinetic analysis of monoclonal antibody-antigen interactions with a new biosensor based analytical system", J. Immunological Methods, 145 (1991), pages 229-240.					
<b>EXAMINER</b> 			<b>DATE CONSIDERED</b> <span style="font-size: 2em; vertical-align: middle;">9-26-05</span>				
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M	C	Johnson et al., "Real-Time Biospecific Interaction Analysis Using Surface Plasmon Resonance nad a Sensor Chip Technology" Biotechniques , Vol. 11, No. 5, 1991, pages 620-627.	
M	D	Prasad et al., "Structure of Toxic Shock Syndrome Toxin 1", Biochemistry, Accelerated Publications, Vol. 32, No. 50, 1993, pages 13761-13766.	
M	E	Acharya, et al., "Structural basis of superantigen action inferred from crystal structure of toxic-shock syndrome toxin-1", Nature, Vol. 367, Jan. 6, 1994, pages 94-97.	
M	F	Swaminathan et al., "Crystal structure of staphylococcal enterotoxin B, a superantigen", Nature, Vol. 359, October 29, 1992, pages 801-806.	
M	G	Ulrich et al., "Staphylococcal enterotoxins A and B share a common structural motif for binding class II major histocompatibility complex molecules", Nature Structural Biology, Vol. 2, No. 6, June 1995, pages 554-560.	
M	H	Kuo et al., "Role of Streptococcal Pyrogenic Exotoxin B in the Mouse Model of Group A Streptococcal Infection", Infection and Immunity, Aug. 1998, Vol. 66, No. 8, pages 3931-3935.	
M	I	Kapur et al., "A conserved Streptococcus pyogenes extracellular cysteine protease cleaves human fibronectin and degrades vitronectin", Microbial Pathogenesis, 1993, Vol. 15, pages 327-346.	
M	J	Kapur et al., "Cleavage of interleukin 1B (IL-1B) precursor to produce active IL-1B by a conserved extracellular cysteine protease from Streptococcus pyogenes", Proc. Natl. Acad. Sci, USA, Vol 90, August 1993, pages 7676-7680.	
M	K	Kagawa et al., "Crystal structure of the zymogen form of the group A Streptococcus virulence factor SpeB: And integrin-binding cysteine protease", PNAS, Feb. 29, 2000, Vol. 97, No. 5, pages 2235-2240.	
M	L	Gubba et al., "Replacement of Histidine 340 with Alanine Inactivates the Group A Streptococcus Extracellular Cysteine Protease Virulence Factor", Infection and Immunity, June 2000, Vol. 68, No. 6, pages 3716-3719.	
M	M	Stiles et al., "Toxicity of Staphylocal Enterotoxins Potentiated by Lipopolysaccharide: Major Histocompatibility Complex Class II Moecule Dependency and Cytokine Release", Infection and Immunity, Dec. 1993, Vol. 61, No. 12, pages 5333-5338.	
M	N	Baker et al., "Structural features of a zinc binding site in the superantigen streptococcal pyrogenic exotoxin A (SpeA1): Implications for MHC class II recognition," Protein Science, 2001, Vol. 10, pages 1268-1273.	
EXAMINER	<i>M. McMinfield</i>		DATE CONSIDERED <i>9-26-05</i>
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<i>JUL 06 2004 SEARCHED &amp; INDEXED</i>	Bordigiani, et al., "Analysis of Toxicity of Streptococcal Pyrogenic Exotoxin A Mutants", Infection and Immunity, July 1997, Vol. 65, No. 7, pages 2868-2875. <i>M</i> O		
<i>M</i> P	Kline et al., "Analysis of the Superantigenic Activity of Mutant and Allelic Forms of Streptococcal Pyrogenic Exotoxin A", Infection and Immunity, Vo. 64, No. 3, March 1996, pages 861-869.		
<i>M</i> Q	Schlievert, "Role of Superantigens in Human Disease", J. of Infectious Diseases, 1993, Vol. 163, pages 997-1002.		
<i>M</i> R	Schlievert et al., "Identification and Characterization of an Exotoxin from Staphylococcus aureus associated with Toxic-Shock Syndrome", J. Infectious Diseases, Vol 143, No. 4, April 1981.		
<i>M</i> S	Schwab et al., "Superantigen Can Reactivate Bacterial Cell Wall-Induced Arthritis", J. Immunology, Vol. 150, No. 9, May 1, 1993, pages 4151-4159.		
<i>M</i> T	Karleman et al., "Kinetic analysis of monoclonal antibody-antigen interactions with a new biosensor based analytical system", J. Immunological Methods, Vol. 145 (1991), pages 239-240. <b>DUPLICATE</b>		
<i>M</i> U	Nabozny et al., "HLA-DQ8 Transgenic Mice Are Highly Susceptible To Collagen-induced Arthritis: A Novel Model For Human Polyarthritis", J. Exp. Med., Vol. 183, Jan. 1996, pages 27-37.		
<i>M</i> V	Hudson et al., "Two Adjacent Residues in Staphylococcal Enterotoxins A and E Determine T Cell Receptor VB Specificity", J. Exp. Med., Vol. 177, Jan. 1993, pages 175-184.		
<i>M</i> W	Panina-Bordignon et al., "Identification of HLA-DRalpha Chain Residues Critical for Binding of the Toxic Shock Syndrome Toxin Superantigen", J. Exp. Med., Vol. 176, Dec. 1992, pages 1779-1784.		
<i>M</i> X	Takei, et al., "Intravenous Immunoglobulin Contains Specific Antibodies Inhibitory to Activation of T Cells by Staphylococcal Toxin Superantigens", J. Clin. Invest., vol. 91, Feb. 1993, pages 602-607. <i>M</i> Takei		
<i>M</i> Y	Sundstrom, et al., "The Co-crystal Structure of Staphylococcal Enterotoxin Type A With Zn <sup>2+</sup> at 2.7 Å Resolution", J. Biological Chemistry, vol 271, No. 50, Dec. 13, 1996, pages 32212-32216.		
<i>M</i> Z	Gubba et al., "Replacement of Histidine 340 with Alanine Inactivates the Group A Staphylococcus Extracellular Cysteine Protease Virulence Factor", Infection and Immunity, Vol. 68, No. 6, June 2000, pages 3716-3719. <b>DUPLICATE</b>		
EXAMINER <i>M. M. Manfield</i>	DATE CONSIDERED 9-26-05		
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		*EXAMINER INITIAL <i>M</i>	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
AA	Ghosh et al., "A Globally Disseminated M1 Subclone of Group A Streptococci Differs from Other Subclones by 70 Kilobases of Phage DNA and Capacity for High-Frequency Intracellular Invasion," Infection and Immunity, Vol. 66, No. 11, Nov. 1998, pages 5592-5597.		
BB	Kun et al., "Role of Streptococcal Pyrogenic Exotoxin B in the Course of Group A Streptococcal Infection", Infection and Immunity, Vol. 61, No. 8, Aug. 1993, pages 3931-3935.  <b>D U P L I C A T E —</b>		
CC	Harokopakis et al., "Mucosal Immunogenicity for a Recombinant Salmonella typhimurium-cloned Heterologous Antigen in the Absence of Presence of Coexpressed Cholera Toxin A2 and B Subunits", Infection and Immunity, April 1997, Vol. 65, No. 4, pages 1445-1454.		
DD	Bavari and Ulrich, "Staphylococcal Enterotoxin A and Toxic Shock Syndrome Toxin Compete with CD4 for Human Major Histocompatibility Complex Class II Binding", Infection and Immunity, Feb. 1995, Vol. 63, No. 2, pages 423-429.		
EE	Stiles, et al., "Toxicity of Staphylococcal Enterotoxins Potentiated by Lipopolysaccharide: Major Histocompatibility Complex Class II Molecule Dependency and Cytokine Release" Infection and Immunity, Dec. 1992, Vol. 60, No. 12, pages 5333-5338.  <b>D U P L I C A T E</b>		
FF	Taneja and David, "HLS class II transgenic mice as models of human diseases", Immunological Reviews 1999, Vol. 169, pages 67-79.		
GG	Takimoto et al., "Stimulation of all T cells bearing VB1, VB3, VB11 and Vb12 by staphylococcal enterotoxin A", Eur. J. Immunol., 1990, Vol. 20, pages 617-621.		
HH	Sundstrom et al., "The crystal structure of staphylococcal enterotoxin type D reveals Zn <sup>2+</sup> -mediated homodimerization", The EMBO Journal, Vol. 15, No. 24, pages 6832-6840, 1996.		
II	Bavari et al., "Divergence of Human and Nonhuman Primate Lymphocyte Responses to Bacterial Superantigens", Clinical Immunology and Immunopathology, Vol. 76, No. 3, Sept. 1995, pages 248-254.		
JJ	Carlsson and Sjogren, "Kinetics of IL-2 and Interferon- $\gamma$ Production, Expression of IL-2 Receptors, and Cell Proliferation in Human Mononuclear Cells Exposed to Staphylococcal Enterotoxin A", Cellular Immunology, 96, pages 175-183 (1985).		
KK	White et al., "The VB-Specific Superantigen Staphylococcal Enterotoxin B: Stimulation of Mature T Cells and Clonal Deletion in Neonatal Mice", Cell, Vol. 56, Jan. 13, 1989, pages 27-35.		
LL	Jansson et al., "Real-Time, Non-specific Interaction Analysis Using Surface Plasmon Resonance and a Sensor Chip Technology" BioTechniques, Bioculture, Vol. 11, No. 5, 1991, pages 628-627.  <b>D U P L I C A T E —</b>		
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M	MM	Prasad et al., "Structure of Toxic Shock Syndrome Toxin 1", Biochemistry, Accelerated Publications, Vol. 32, No. S0, Dec. 21, 1993, pages 13761-13766. <b>D U P L I C A T E</b>	
MM	NN	Herman et al., "Superantigens: Mechanism of T-Cell Stimulation of Role in Immune Responses", Annu. Rev. Immunol., 1991, Vol. 9, pages 745-772.	
M	OO	Kreiswirth et al., "Cloning and expression of streptococcal pyrogenic exotoxin A and staphylococcal toxic shock syndrome toxin-1 in Bacillus subtilis", Mol. Gen. Genet. (1987), Vol. 208, pages 84-87.	
YM	PP	Bohach et al., "Staphylococcal and Streptococcal Pyrogenic Toxins Involved in Toxic Shock Syndrome and Related Illnesses", Microbiology, 1990, Vol. 17, Issue 4, pages 251-272.	
M	QQ	Bergdoll, "Enterotoxins", Staphylococci and Staphylococcal Infections, 2, chapter 16, pages 559-598, (1983).	
M	RR	Anderson et al., "Delivery of the Pertactin/P.69 polypeptide of Bordetella pertussis using an attenuated Salmonella typhimurium vaccine strain: expression levels and immune response", Vaccine, 1996, Vol. 14, No. 14, pages 1384-1390.	
M	SS	Ulrich et al., "Bacterial superantigens in human disease: structure, function and diversity," Trends in Microbiology, Vol 3, No. 12, Dec. 1995, pages 463-468.	
M	TT	Posnett, "Do superantigens play a role in autoimmunity?", Seminars in Immunology, Vol. 5, 1993, pages 65-72.	
M	UU	Kim et al., "Toxic Shock Syndrome Toxin-1 Complexed with a Class II Major Histocompatibility molecule HLA-DR1", Science, Nov. 266, Dec. 16, 1994, pages 1870-1874.	
M	VV	Marrack and Kappler, "The Staphylococcal Enterotoxins and Their Relatives", Sciences, Vol. 248, Articles, May 11, 1990, pages 705-711.	
M	WW	Mollick et al., "Class II MHC Molecules Are Specific Receptors for Staphylococcus Enterotoxin A", Science, Vol 244, Reports, May 19, 1989, pages 817-820.	
M	XX	Kappler et al., "VB-Specific Stimulation of Human T Cells by Staphylococcal Toxins", Science, Vol. 244, Reports, May 19, 1989, page 811-813. <b>D U P L I C A T E</b>	
EXAMINER	NM Mainfield		DATE CONSIDERED 9-26-05
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M	YY	Kapur et al., "Crystal structure of the zymogen form of the group A Streptococcus virulence factor SspB: An integrin-binding cysteine protease", PNAS, Vol. 97, No. 5, Feb. 29, 2000, pages 2235-2240. <b>D U P L I C A T E —</b>	
M	ZZ	Medaglini et al., "Mucosal and systemic immune responses to a recombinant protein expressed on the surface of the oral commensal bacterium Streptococcus gordonii after oral colonization", PNAS, USA, Vol. 91, July 1995, pages 6868-6872.	
M	AAA	Kapur, et al., "Cleavage of interleukin 1B (IL-1B) precursor to produce active IL-1B by an unconserved extracellular cysteine protease from Streptococcus pyogenes", PNAS, Sci, USA, Vol. 91, Aug. 1994, pages 7676-7680. <b>D U P L I C A T E —</b>	
M	BBB	Fraser et al., "Zinc regulates the function of two superantigens", PNAS, Sci, USA, Vol 89, June 1992, pages 5507-5511.	
M	CCC	Choi et al., "Interaction of Staphylococcus aureus toxin 'superantigens' with human T cells", PNAS Sci. USA, Vol. 86, Nov. 1989, pages 8941-8945.	
M	DDD	Goldenberg and Reed, "Bacterial Arthritis", The New England Journal of Medicine, Vol. 312, No. 12, March 21, 1985, pages 764-771.	
M	EEE	Ulrich et al., "Staphylococcal enterotoxins A and B share a common structural motif for binding class II major histocompatibility complex molecules", Nature Structural Biology, Vol. 2, No. 6, June 1995, pages 554-560. <b>D U P L I C A T E</b>	
M	FFF	Jardetzky et al., "Three-dimensional structure of a human class II histocompatibility molecule complexed with superantigen", Nature, Vol. 368, April 21, 1994, pages 711-718.	
M	GGG	Acharya et al., "Structural basis of superantigen action inferred from crystal structure of toxic-shock syndrome toxin-1", Nature, Vol 367, Jan. 6, 1994, pages 94-97.	
M	HHH	Swaminathan et al., "Crystal structure of staphylococcal enterotoxin B, a superantigen", Nature, Vol. 359, Oct. 29, 1992, pages 801-806. <b>D U P L I C A T E —</b>	
M	III	Kawabe and Ochi, "Programmed cell death and extrathymic reduction of VB8+ CD4+ T cells in mice tolerant to Staphylococcus aureus enterotoxin B", Nature, Vol. 349, Jan 17, 1991, pages 245-248.	
M	JJJ	Fraser, "High-affinity binding of staphylococcal enterotoxins A and B to HLA-DR", Nature, VOI. 339, May 18, 1989, pages 221-223.	
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<i>M</i>	KKK	<p>Kour et al., "A conserved <i>Streptococcus pyogenes</i> extracellular cysteine protease cleaves human fibronectin and degrades vitronectin", <i>Microbial Pathogenesis</i>, Vol 15, 1993, pages 27-346.</p> <p><b>D U P L I C A T E —</b></p>	
<i>M</i>	LLL	<p>Schievert, "Staphylococcal enterotoxin B and toxic-shock syndrome toxin-1 are significantly associated with non-menstrual TSS", <i>The Lancet</i>, May 17, 1986, pages 1149-1150.</p>	
EXAMINER	<i>N M Minnifield</i> DATE CONSIDERED <i>9-26-05</i>		
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